2004 Water Quality Assessment (Final) - Category 5 Listings for WRIA 57

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		Remarks	
57	**17482**	**5**	**N**	**LIBERTY LAKE**	**WM44TL 25N 45E 22**	**4,4'-DDE**	**Tissue**
				Seiders, 2002. show the National Toxics Rule criterion was exceeded in fillet samples of Brown trout collected in 2001.			
57	**17484**	**5**	**N**	**LIBERTY LAKE**	**WM44TL 25N 45E 22**	**Total PCBs**	**Tissue**
				Seiders, 2002. show the National Toxics Rule criterion was exceeded in fillet samples of Brown trout collected in 2001.			
57	**6358**	**5**	**Y**	**NEWMAN LAKE**	**572HJX 26N 45E 11**	**Total Phosphorus**	**Water**
				Completed Phase I State Clean Lakes Restoration Project in 1988 - Problems Encountered: Blue-green algae, hypolimnetic anoxia, turbidity, tributary nutrient inputs, sediment phosphorus recycling, low transparency. Funk and Moore, 1988.		Completed Phase II State Clean Lakes Restoration Project in 1995: Control measures implemented based on the Phase I Study - phosphorus precipitation/inactivation, hypolimnetic aeration, watershed nutrient management(stream bank fencing, septic system management, ordinance development), public education. Spokane County adopted a 'Comprehensive Plan for Development for Storm water Control in the Newman Lake Watershed '(prepared by Douglas Robison and William Funk at WSU) in Feb. 1997. An alum injection system was installed in conjunction with the hypolimnetic aerator diffuser ports in 1997.	
57	**11400**	**5**	**N**	**SPOKANE RIVER**	**QZ45UE 154.285 25N 46E 06**	**Dissolved oxygen**	**Water**
				Hallock (2003), Dept. of Ecology ambient station 57A150 shows a total of 4 samples in years 2002 and 2003 exceeded the criterion. Cusimano (2001) station 57A150 (Spokane R. at Stateline Bridge) shows 3 excursions beyond the criterion out of 8 samples collected between 06/00 - 09/00. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 57A150 (SPOKANE RIVER AT STATELINE BRIDGE) shows 8 excursions beyond the criterion out of 63 samples collected between 1993 - 2001 measured on these dates: 00/08/06, 93/08/04, 93/09/08, 94/08/02, 95/08/07, 95/09/05, 96/08/05, 97/08/05. Dept. of Ecology unpublished data from the Spokane River TMDL at RM 96 shows excursions beyond the criterion from a 7-day mean of minimum daily continuous Hydrolab measurements collected during August 2001. Dept. of Ecology unpublished data from the Spokane River TMDL at RM 96 shows excursions beyond the criterion from continuous Hydrolab measurements collected during 16-18 August 1999.			

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
57	**15187**	**5**	**N**	**SPOKANE RIVER**	**QZ45UE 118.888**	**25N**	**43E**	**18**	**Dissolved oxygen**	**Water**

Dept. of Ecology unpublished data from the Spokane River TMDL at RM 74.8 shows excursions beyond the criterion from a 7-day mean of minimum daily continuous Hydrolab measurements collected during August 2001.

Dept. of Ecology unpublished data from the Spokane River TMDL at RM 74.4 shows no excursions beyond the criterion from continuous Hydrolab measurements collected during 24-25 August 1999.

Cusimano (2001) station SPK73.4 (Spokane River (SPK73.4)) shows 0 excursions beyond the criterion out of 4 samples collected between 06/00 - 09/00 .

57	**17523**	**5**	**N**	**SPOKANE RIVER**	**QZ45UE 129.113**	**25N**	**43E**	**02**	**Dissolved oxygen**	**Water**

Dept. of Ecology unpublished data from the Spokane River TMDL at RM 79.9 shows excursions beyond the criterion from a 7-day mean of minimum daily continuous Hydrolab measurements collected during August 2001.

57	**3737**	**5**	**N**	**SPOKANE RIVER**	**QZ45UE 154.285**	**25N**	**46E**	**06**	**Temperature**	**Water**

Dept. of Ecology unpublished data from core ambient monitoring station 57A150 (Spokane R. at Stateline Bridge) shows a 7-day mean of daily maximum values of 25.9 for mid-week 14 August 2001.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 57A150 (SPOKANE RIVER AT STATELINE BRIDGE) shows 8 excursions beyond the criterion out of 63 samples collected between 1993 - 2001

Dept. of Ecology unpublished data from the Spokane River TMDL at RM 96 shows excursions beyond the criterion from continuous Hydrolab measurements collected during 16-17 August 1999.

U.S.Geological Survey data from NWIS database station 12419500 (Spokane R abv Liberty Br. Nr Otis Orchard, WA) shows 1 excursions beyond the criterion out of 10 samples collected between 01/93 - 10/00.

Cusimano (2001) station 57A150 (Spokane R. at Stateline Bridge) shows 6 excursions beyond the criterion out of 8 samples collected between 06/00 - 09/00 .

Dept. of Ecology unpublished data from the Spokane River TMDL at RM 96 shows excursions beyond the criterion from a 7-day mean of maximum daily

continuous Hydrolab measurements collected during August 2001.

The Spokane River originates from surface-level outflows from a large natural lake that may cause temperature criteria exceedances under natural conditions. A rationale with supporting documentation submitted by Lincoln Loehr on 17 December 2002 suggests the high temperature values are a natural condition caused by effects of Lake Coeur d'Alene upstream. However, there is insufficient data to rule out the possibility that human activities have increased water temperatures over natural conditions in excess of allowable limits, such as from dams or point source discharges located on the river. This river also flows into tribal jurisdiction. Until further study is done, it is not possible to rule out that human factors aren't contributing to the problem. (Pickett,

ECY/EAP,

2003) (Parodi, ECY/ERO, 2003)

57	**8201**	**5**	**Y**	**SPOKANE RIVER**	**QZ45UE 134.537**	**25N**	**44E**	**04**	**Total PCBs**	**Tissue**

Johnson, et al. 1994. excursions beyond the National Toxics rule criterion in fillet samples of Rainbow Trout in 1993.

57	**8202**	**5**	**Y**	**SPOKANE RIVER**	**QZ45UE 123.65**	**25N**	**43E**	**09**	**Total PCBs**	**Tissue**

Washington Dept. of Ecology, 1995. excursions beyond the National Rule criterion in multiple samples of edible tissue of Rainbow Trout in 1993-94.

Johnson, 2000. show excursions beyond the National Toxics Rule Criterion in Mountain whitefish, Largescale sucker and Rainbow Trout fillet samples collected in 1999 at Greene Street.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
57	**8207**	**5**	**Y**	**SPOKANE RIVER**	**QZ45UE**	**132.897**	**25N**	**44E**	**05**	**Total PCBs**	**Tissue**
				Washington Dept. of Ecology, 1995. excursions beyond the National Rule criterion in multiple samples of edible tissue of Rainbow Trout, White Crappie, and Mountain Whitefish in 1993-94. Johnson, 1997. show excursions beyond the National Toxics Rule Criterion in Rainbow Trout fillet samples collected in 1996 at Trent Rd.						
57	**14397**	**5**	**N**	**SPOKANE RIVER**	**QZ45UE**	**152.353**	**25N**	**45E**	**01**	**Total PCBs**	**Tissue**
				Johnson, 2000. show excursions beyond the National Toxics Rule Criterion in Largescale sucker and Rainbow Trout fillet samples collected in 1999 at the Stateline.							
57	**14398**	**5**	**N**	**SPOKANE RIVER**	**QZ45UE**	**136.584**	**25N**	**44E**	**03**	**Total PCBs**	**Tissue**
				Johnson, 2000. show excursions beyond the National Toxics Rule Criterion in Largescale sucker and Rainbow Trout fillet samples collected in 1999 at the Plante Ferry Site Park.							
57	**14402**	**5**	**N**	**SPOKANE RIVER**	**QZ45UE**	**123.319**	**25N**	**43E**	**16**	**Total PCBs**	**Tissue**
				Johnson, 1997. show excursions beyond the National Toxics Rule Criterion in Rainbow Trout and Mountain whitefish fillet samples collected in 1996 above Monroe Street Dam.							